WE CLAIM:

1. A compound comprising the formula:

(I)

$$\begin{array}{c|c} R_4 & R_2 & O \\ \hline R_4 & R_6 & R_1 \\ \hline Z & R_5 & R_6 \end{array}$$

wherein:

 R_1 and R_2 are individually selected from the group consisting of H, CH₃, C_2 - C_{10} alkyls, C_2 - C_{10} alkenyls or C_2 - C_{10} alkynyls, each of which can be substituted or unsubstituted; straight or branched, C_2 - C_{10} heteroalkyls, C_2 - C_{10} heteroalkenyls or C_2 - C_{10} heteroalkynyls and $-(CR_{15}R_{16})_p$ -D;

wherein: R₁₅ and R₁₆ are individually selected from the group consisting of H, CH₃, C₂-C₁₀ alkyls, C₂-C₁₀ alkenyls or C₂-C₁₀ alkynyls, each of which can be substituted or unsubstituted; straight or branched; and C₂-C₁₀ heteroalkyls, C₂-C₁₀ heteroalkenyls or C₂-C₁₀ heteroalkynyls; p is a positive integer from 1 to about 12;

D is selected from among -SH, -OH, X2, -CN, -OR19, NHR20,

$$R_{17}$$
, CH_2 CH_2 and CR_{18}

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wherein:

 R_{17} is H, CH_3 or X_3 ;

R₁₈ is H, a C₁₋₄ alkyl or benzyl;

R₁₉ is H, a C₁₋₄ alkyl, X₂ or benzyl;

 R_{20} is H, a C_{1-10} alkyl or $-C(O)R_{21}$,

wherein R_{21} is H, a C_{1-4} alkyl or alkoxy, t-butoxy or benzyloxy;

X₂ and X₃ are independently selected halogens;

 R_3 is H, CH₃, or $-C(=O)(CR_{15}R_{16})_w$ -D,

25 where w is 0 or an integer from 1 to about 12, and D is H or as described for R₁ and R₂

J is O, NH or S;

 R_4 , R_5 , and R_6 are independently selected from the group consisting of H, CH_3 , C_2 - C_{10} alkyls, C_2 - C_{10} alkenyls or C_2 - C_{10} alkynyls, each of which can be substituted or unsubstituted; straight or branched; C_2 - C_{10} heteroalkyls,

5 heteroalkenyls or heteroalkynyls and halogens;

Z is NR₇R₈ or

wherein R_7 is selected from among H, CH_3 , C_2 - C_{10} alkyls, alkenyls or alkynyls which can be substituted or unsubstituted; straight or branched; C_2 - C_{10} heteroalkyls, heteroalkenyls or heteroalkynyls, or $-(CR_{23}R_{24})_q$ -aryl, or R_8 ,

wherein R_{23} and R_{24} are independently selected from the group consisting of H and C_1 - C_{10} alkyls;

q is an integer from 1 to about 6;

 $R_8 \ is \ selected \ from \ the \ group \ consisting \ of \ (CR_9R_{10})_n-NR_{22}-R_{11},$ $(CR_9R_{10})_n-CH_2-NHC(O)R_{26} \ and \ (CR_9R_{10})_n-CH_2-E;$

wherein R_9 and R_{10} are independently selected from the group consisting of H, CH_3 , C_2 - C_{10} alkyls, C_2 - C_{10} alkenyls or C_2 - C_{10} alkynyls, each of which can be substituted or unsubstituted; straight or branched; C_2 - C_{10} heteroalkyls, C_2 - C_{10} heteroalkynyls and halogens;

R₂₆ is H, CH₃, O-t-butyl, O-benzyl;

20 E is OH, SH or O-C(O) R_{27} ,

wherein R₂₇ is a C₁-C₆ alkyl, benzyl or phenyl;

R₂₂ is H or CH₃;

n is a positive integer from 1 to about 10;

 R_{11} is H or -L-B,

wherein L is a linker; and

B is a first active moiety, reactive group moiety or a polymer;

 R_{25} is H, -C(O)- R_{28} or -C(O)-O- R_{29} ,

wherein R₂₈ is a C₁₋C₆ alkyl or benzyl; and R₂₉ is CH₃, t-butyl or benzyl;

 X_1 is O, NH, or S; and

30 A is H or a second active moiety.

2. The compound of claim 1, wherein Z is NR_7R_8 .

- 3. The compound of claim 2, wherein R₈ is -CH₂-CH₂-NH₂.
- 4. The compound of claim 2, wherein R_8 is $(CR_9R_{10})_n$ -NR₂₂-R₁₁.
- 5 5. The compound of claim 1, wherein L-B comprises a maleimidyl or an N-hydroxysuccinimidyl group.
 - 6. The compound of claim 4, wherein R_{11} comprises a polyalkylene oxide residue.

- 7. The compound of claim 6, wherein said polyalkylene oxide residue is a polyethylene glycol.
- 8. The compound of claim 7, wherein said polyethylene glycol has a number average molecular weight of from about 2,000 to about 200,000 daltons.
 - 9. The compound of claim 4, wherein R₁₁ comprises a member of the group consisting of collagen, glycosaminoglycan, poly(-aspartic acid), poly(-L-lysine), poly(-lactic acid), poly-N-vinylpyrolidone and copolymers of poly(-lactic acid) and poly(-glycolic acid).
 - 10. The compound of claim 1, wherein R_1 , R_2 , R_3 , R_4 , R_5 , and R_6 are independently selected from the group consisting of H, CH_3 and CH_3CH_2 .
- 25 11. The compound of claim 4, wherein R_7 is CH_3CH_2 ; R_8 is $-(CR_9R_{10})_n$ - NR_{22} - R_{11} ; and R_9 and R_{10} are H; n is 2; and X_1 is O, S or NH.
 - 12. The compound of claim 4, wherein R_7 is CH_3CH_2 ; R_8 is $-(CR_9R_{10})_n$ - NR_{22} - R_{11} and R_9 and R_{10} are H.

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- 13. The compound of claim 1, wherein said second active moiety comprises a member of the group consisting of X_1A_1 or X_1A_2 wherein
- X_1A_1 is a substrate or substrate analog selected from the group consisting of amino acids, amino acid derivatives, peptides, peptide derivatives and substrates or substrate

analogs for serine proteases, cysteine proteases, esterases, lipases, or other enzymes containing an active site serine or cysteine; and

 X_1A_2 is an enzyme.

5 14. The compound of claim 13, wherein X_1A_1 is a moiety of the formula

$$R_{12}$$
 NO_2 or R_{13} NH_2

wherein R_{12} and R_{13} are independently H or electron donating or electron withdrawing groups and W is CH or N.

- 10 15. The compound of claim 13, wherein A₂ is an enzyme selected from the group consisting of serine proteases, cysteine proteases, esterases, lipases and enzymes containing an active-site serine or cysteine.
- 16. The compound of claim 14, wherein J is O, R_2 is H, R_7 is CH_3CH_2 ; R_8 is $-(CR_9R_{10})_n-NR_{22}-R_{11}, R_9 \text{ and } R_{10} \text{ are H, and n is 2}.$
 - 17. The compound of claim 15, wherein X_1A_2 is an enzyme having an active-site serine or cysteine.
- 20 18. The compound of claim 11, wherein X_1A_2 is a blood coagulation factor.
 - 19. The compound of claim 11, wherein the enzyme is selected from the group consisting of plasmins, urokinases, and tissue plasminogen activators.
- 25 20. The compound of claim 13, wherein X_1A_1 is an amino acid, peptide, or substrate or substrate analog capable of interacting with an enzyme.
 - 21. The compound of claim 20, wherein said amino acid is selected from the group consisting of isoleucine, phenylalanine, tyrosine, lysine, arginine, aspartate, glutamate, glutamine and asparagine.

22. A compound of claim 1 selected from the group consisting of:

$$\begin{array}{c|c} & & & & \\ & & & & \\ R_4 & & & & \\ & & & & \\ R_5 & & & \\ & & & \\ & & & \\ R_6 & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\$$

wherein

PEG is a polyethylene glycol having a molecular weight of from about 2,000 to about 200,000; and mAb is a monoclonal antibody.

- The compound of claim 22, wherein said monoclonal antibody is trastuzumab. 23.
- The compound of claim 1, wherein L-B comprises a maleimidyl or an 10 24. N-hydroxysuccinimidyl group.
 - A pharmaceutically acceptable salt of the compound of claim 1. 25.

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- 26. A method of treatment, comprising: administering to a mammal in need of such treatment an effective amount of a compound of claim 1, where B is a first active moiety.
- 5 27. The method of claim 26, further comprising exposing the compound of claim 1 to an energy source after administration to said mammal.
 - 28. The method of claim 27, wherein the energy source is white light having a wavelength in the range from 340 to 700 nm.
 - 29. The method of claim 27, wherein the energy source is white light having a wavelength in the range from 350-420 nm.
- The method of claim 27, wherein the energy source is selected from the group
 consisting of microwave, ultrasound, radio energy, gamma radiation, radioactivity,
 ultraviolet light and infrared light.
 - 31. A method of preparing a conjugate, comprising: reacting a compound of Formula (IV)

$$R_4$$
 R_7
 R_5
 R_1
 R_1
 R_1
 R_1
 R_1
 R_2
 R_1
 R_2
 R_1
 R_2
 R_3
 R_4
 R_4
 R_1
 R_2
 R_3
 R_4
 R_4
 R_5

20 (IV)

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wherein:

 R_1 and R_2 are individually selected from the group consisting of H, CH₃, C_2 - C_{10} alkyls, C_2 - C_{10} alkenyls or C_2 - C_{10} alkynyls, each of which can be substituted or unsubstituted; straight or branched, C_2 - C_{10} heteroalkyls, C_2 - C_{10} heteroalkenyls or

C2-C10 heteroalkyls, C2-C10 heteroalkenyls or C2-C10 heteroalkynyls;

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p is a positive integer from 1 to about 12;

D is selected from among -SH, -OH, X2, -CN, -OR19, NHR20,

$$CH_2$$
 and CH_2 and CH_{17} , CH_{18}

wherein:

5 R_{17} is H, a CH_3 or X_3 ;

R₁₈ is H, a C₁₋₄ alkyl or benzyl;

R₁₉ is H, a C₁₋₄ alkyl, X₂ or benzyl;

 R_{20} is H, a C_{1-10} alkyl or $-C(O)R_{21}$

wherein R_{21} is H, a C_{1-4} alkyl or alkoxy, t-butoxy or benzyloxy;

X₂ and X₃ are independently selected halogens;

 R_3 is H, CH₃, or $-C(=O)(CR_{15}R_{16})_w$ -D,

where w is 0 or an integer from 1 to about 12, and D is H or as described for R_1 and R_2 . J is O, NH or S;

15 R₄, R₅ and R₆ independently selected from the group consisting of H, CH₃, C₂-C₁₀ alkyls, C₂-C₁₀ alkenyls or C₂-C₁₀ alkynyls, each of which can be substituted or unsubstituted; straight or branched; C₂-C₁₀ heteroalkyls, heteroalkenyls or heteroalkynyls and halogens;

R₇ is selected from among H, CH₃ and C₂-C₁₀ alkyls;

 X_1 is O, NH, or S; and

A is H or a second active moiety;

with a compound of the Formula (V):

(V) L_1 - B_1

wherein L_1 is a moiety containing a functional group capable of reacting with the NHR₂₂ of Formula (IV);

and B_1 is selected from the group consisting of polymers, biologically active materials and polymeric supports.